

## ECS Configuration Change Request

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Page(s)

1. Originator Layne Behrens	2. Log Date: <b>17 JAN 00</b>	3. CCR #: <b>00-0046</b>	4. Rev: <b>-</b>	5. Tel: 883-4162	6. Rm #: 2053g	7. Org. ICOTS
8. Title of Change: Install SGI patch bundle in the functionality lab						
9. Originator Signature/Date <i>Layne Behrens 1/17/00</i>		10. Class <b>IN</b>	11. Type: CCR	12. Need Date: 1/19/00		
13. Office Manager Signature/Date <i>A. J. Smith 1-17-00</i>		14. Category of Change: EDF		15. Priority: (If "Emergency" fill in Block 28). Routine		
16. Documentation/Drawings Impacted: none		17. Schedule Impact: none		18. CI(s) Affected: none		
19. Release Affected: 5a/5b		20. Date due to Customer: 1/20/00		21. Impl. Date: 1/20/00		22. Estimated Cost: None
23. Source Reference: <input checked="" type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> Tech Ref. <input type="checkbox"/> GSFC <input type="checkbox"/> Other: ECSed25243						
24. Description of Change: (use additional Sheets if necessary) Install the SILICON GRAPHICS IRIX 6.2 Recommended OS, Security, and Y2K Patch Updates: includes DCE and compiler patches as directed by the attached PSR Capture changes and redline the PSR document						
25. Proposed Solution: (use additional sheets if necessary) Install the SGI patches on the following hosts (functionality lab): cherokee, comanche, juror2, kickapoo, kidnaped CM has the patch bundle (IRIX6.2_All_12_99.tar) <i>Note: - Work has to be coordinated with lab lead</i>						
26. Alternate Solution: (use additional sheets if necessary) none						
27. Consequences if Change(s) are not approved: (use additional sheets if necessary) There is a leap year bug that won't be fixed and will cause the system date to be incorrect on reboot.						
28. Justification for Emergency (If Block 15 is "Emergency"):						
29. Site(s) Affected: <input checked="" type="checkbox"/> EDF <input type="checkbox"/> Mini-DAAC <input type="checkbox"/> VATC <input type="checkbox"/> EDC <input type="checkbox"/> GSFC <input type="checkbox"/> LaRC <input type="checkbox"/> NSIDC <input type="checkbox"/> SMC <input type="checkbox"/> AK <input type="checkbox"/> JPL <input type="checkbox"/> EOC <input type="checkbox"/> IDG Test Cell <input type="checkbox"/> Other						
30. Board Comments:				31. Work Assigned To: <i>LTSC</i>		
32. EDF/REL2 CCB Chair (Sign/Date): <i>Layne Behrens 1/19/00</i>		33. Disposition: <u>Approved</u> A/C Disapproved Fwd/ECS Fwd/ESDIS		34. (TBD)		
35. M&O CCB Chair (Sign/Date):		36. Disposition: Approved A/C Disapproved Fwd/ECS Fwd/ESDIS		37. CM Manager's Closure:		
38. ECS CCB Chair (Sign/Date):		39. Disposition: Approved A/C Disapproved		40. CCR Closed Date:		

CM01 March 8, 1999

ORIGINAL

ECS/EDF/REL2 CCB  
01-18-00A10:53 0402

## ADDITIONAL SHEET

CCR #: 00.0046 Rev: \_ Originator: Layne Behrens

Telephone: 4162 Office: 2053b

Title of Change: Install SGI patch bundle in the functionality lab

NCR ID: ECSed25243 Status: MERGED Submitted: 000113  
NCR Class: OPERATIONS Project: OPS\_COTS Enclosures: 4

NCR TITLE...  
SQI Leap Year Bug

PROBLEM INFORMATION...	ANALYSIS INFORMATION...
Build Name[*]: Drop 5A.04	Evaluate Engineer: ebehrens
Test Site[*]: EDF	Assigned To: ebehrens
Detection Method[*]: Analysis	Analysis Due Date (yymmdd):
Detected-In-Phase[*]: Code Inspection	
Test Case ID:	COST ANALYSIS INFORMATION...
Machine Name:	Cost[*]: LOW
Severity (1=Showstopper)[*]: 2	Estimated Fix Time(hrs): 2
Mission-Criticality (Admin Use Only): 0	Estimated Fix Date(yymmdd): 000201
Mode [*]: Other	Workaround Available? N
Trouble Ticket:	
DAAC Trouble Ticket:	TO BE FIXED INFORMATION...
SUBMITTER INFORMATION...	Problem type[*]: COTS/OS
Submitter: rwhite	Recommended change[*]: COTS/OS
	Implement Due Date (yymmdd):

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NCR Class: OPERATIONS Project: OPS\_COTS

MERGE INFORMATION..  
Resolution[\*]: COTS/OS  
Resolved by: ebehrens  
Iteration:  
Indicate\_SLOC[\*]: Not Applicable  
Num\_SLOC: 0  
Fixing time (hrs): 2  
Affect CSCI: all  
Merge Build Id:  
Documentation affected (Y/N)? Y

\*\*\*\*\* Problem \*\*\*\*\*

Please describe the problem you are experiencing below, including what you did, what you expected to happen, and what actually happened:

This bug was reports to us by SGI:

3566: 6.2 all platform kernel rollup  
System loses day on reboot

Bug Number : 627685  
Product : IRIX  
Category : software  
Classification : bug

00-0046

Priority : 1  
Status : closed  
Date Opened : 08/12/98  
Date Updated : 08/09/99  
Summary : System loses day on reboot

Description :

There is a bug in the software that sets the System Clock from the Real Time Clock (RTC) at boot time.

This problem only occurs on the following systems: Challenge, Onyx, Power Challenge, Power Challenge 10000, Power Onyx, Power Onyx 10000, Origin200, Origin2000 and Onyx2 systems.

The symptoms of this bug depend on the installed system software.

For a system running IRIX 6.2 without patch 2859; or IRIX 6.4 without patch 2980. If the system is rebooted on or between March 1, 1998 and February 28, 2000, the System Clock will be exactly one day slow. This problem recurs for the same period in 2002-2004, 2006-2008, and so on.

For a system running IRIX 6.2 with patch 2859 but not patch 3554; IRIX 6.4 with patch 2980 but not patch 3554; or IRIX 6.5 (base release or 6.5.1 or 6.5.2 overlay releases). This problem occurs when the system is shut down or placed in PROM mode before midnight, February 29, of a leap year, and not rebooted until March 1 or later. When the system is booted, the System Clock will be exactly one day slow.

For a system running IRIX 6.2 with patch 3554 but not patch 3704; IRIX 6.4 with patch 3554 but not patch 3711; IRIX 6.5.3; or IRIX 6.5.4. This problem occurs when the system is shut down or placed in PROM mode before midnight, February 28, of an even-numbered year that is not a leap year, and not rebooted until March 1 or later. When the system is booted, the System Clock will be exactly one day fast.

#### Workaround:

On rebooting, check the date given by the System Clock. If it is incorrect, set it manually.

#### \*\*\*\*\* Resolution (Added 000113 by ebehrens) \*\*\*\*\*

The SGI patch 3356: 6.2 All Platform Kernel Rollup fixes this problem. A PSR for release of this and other os patches in in progress.

#### \*\*\*\*\* Analysis \*\*\*\*\*

Please describe your Analysis:  
Problem fixed by patch

#### \*\*\*\*\* Previous Merge Build IDs \*\*\*\*\*

Please enter any related Merge Build ID(s) information:

CM01A